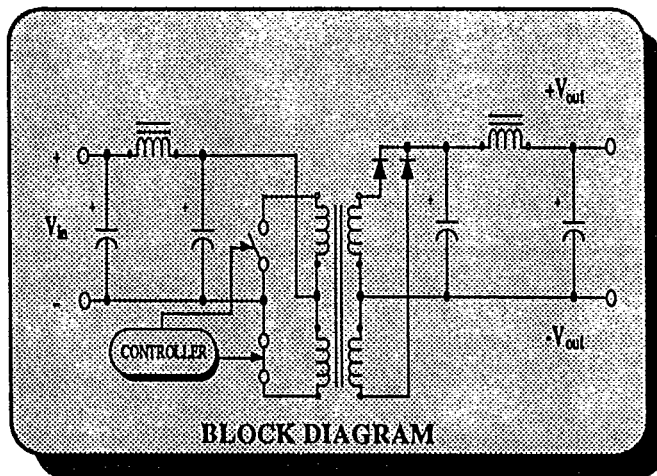
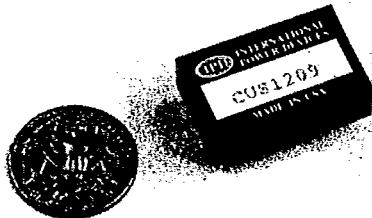




T-57-11
1 to 1.5 WATT

CUS

SERIES



FEATURES:

- 24-PIN DIP PACKAGE
- π (PI) INPUT FILTER
- 500VDC ISOLATION
- REGULATED OUTPUTS

APPLICATIONS:

- A/D-D/A CONVERTERS
- RS-232 DRIVERS
- INDUSTRIAL CONTROL CIRCUIT
- BIAS POWER FOR RAMS, ROMS, PROMS

The CUS Series is a line of unregulated, single output DC/DC converters packaged in a 24-pin DIP IC-compatible configuration. An internal π (Pi) input filter and high quality tantalum capacitors are standard for all models. These miniature modules provide up to 75% efficiency for applications where a regulated or semiregulated input voltage source is available or where high efficiency is more important than line & load regulation.

ELECTRICAL SPECIFICATIONS

All Specifications Typical @+25°C, Nominal Line, and Full Load Unless Otherwise Noted.

INPUT SPECIFICATIONS

Input Voltage Range

5 VDC Input Models 4.5 VDC to 5.5 VDC

12 VDC Input Models 10.8 VDC to 13.2 VDC

Input Filter π (Pi) Filter

OUTPUT SPECIFICATIONS

Voltage Accuracy $\pm 4\%$, max.
(Nominal Line & Full Load)

Line Regulation See Table

Load Regulation See Table

Ripple and Noise, 20 MHz BW 150 mVp-p, max.

Short Circuit Protection Short Term

Short Circuit Restart Automatic

GENERAL SPECIFICATION

Efficiency 60-80%

Isolation Voltage 500 VDC, min.

Isolation Capacitance 80 pF

Isolation Resistance 10^9 Ohms

Switching Frequency 40 KHz, typ.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range -25°C to +71°C

Derating None

Storage Temperature Range -40°C to +125°C

Humidity 20% to 95% R.H. (non-condensing)

Cooling Free-Air Convection

PHYSICAL SPECIFICATIONS

Dimensions 1.25 x 0.8 x 0.4 Inches
(32 x 20 x 10.2 mm)

Weight 0.5 Oz. (14 g)

Case Material Phenolic

SINGLE OUTPUT

INTERNATIONAL
POWER DEVICES



INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION		MODEL NUMBER
			NO/LOAD	FULL/LOAD		LINE*	LOAD**	
5VDC	5VDC	220mA	88mA	350mA	60	±1.2%	±10%	CUS505
	9VDC	150mA	90mA	420mA	64	±1.2%	±8%	CUS509
	12VDC	125mA	72mA	420mA	70	±1.2%	±8%	CUS512
	15VDC	100mA	87mA	406mA	72	±1.2%	±8%	CUS515
12VDC	5VDC	220mA	30mA	140mA	64	±1.2%	±8%	CUS1205
	9VDC	220mA	30mA	160mA	72	±1.2%	±8%	CUS1209
	12VDC	150mA	39mA	160mA	78	±1.2%	±8%	CUS1212
	15VDC	100mA	38mA	170mA	73	±1.2%	±8%	CUS1215

* Line Regulation is per 1.0% change in Input Voltage.

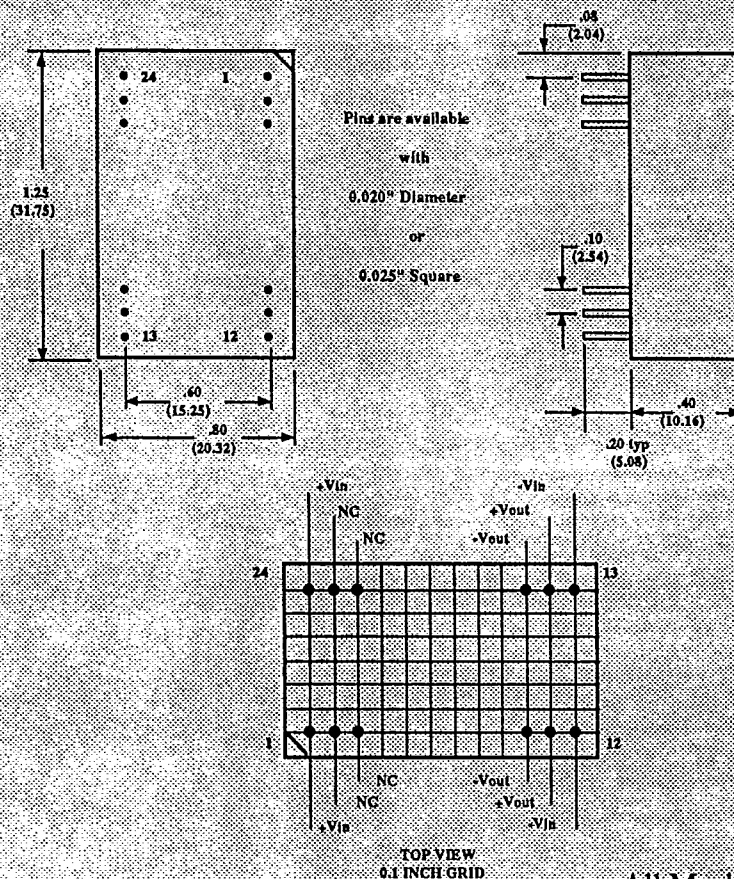
** Load Regulation is for load change from 20% to 100%.

When Ordering Round Pin, Please Add Suffix "R" at the End of a Part Number.

Example: CUS505R

ALL DIMENSIONS IN INCHES (MM)

Specifications Subject to Change Without Notice.



TOP VIEW
0.1 INCH GRID

All Mechanical Tolerances are ±0.020"